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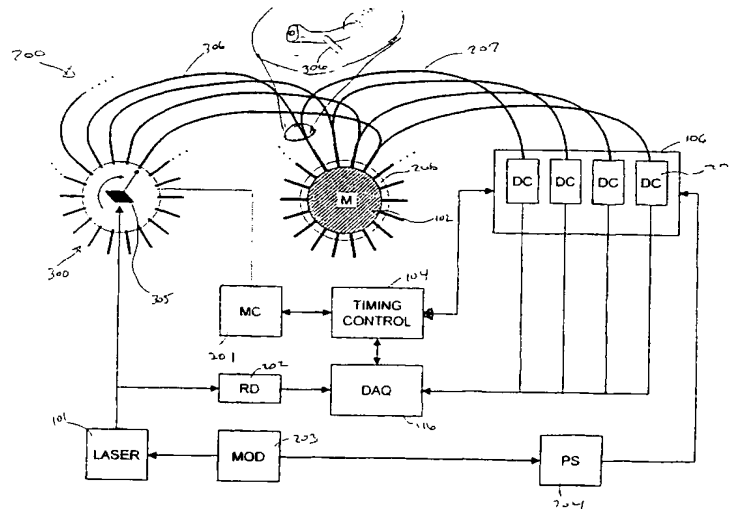
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60/154,099 15 September 1999 (15.09.1999) US</p> <p>(71) Applicant (for all designated States except US): THE RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK [US/US]; Technology Transfer Office, P.O. Box 9, Albany, NY 12201-0009 (US).</p> <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): BARBOUR, Randall, L. [US/US]; 15 Cherry Lane, Glen Head, NY 11455</p> | <p>(US). SCHMITZ, Christoph, H. [DE/US]; 177 Park Place, Apartment 1, Brooklyn, NY 11238 (US).</p> <p>(74) Agents: RICHTER, Kurt, E. et al.; Morgan & Finnegan, L.L.P., 345 Park Avenue, New York, NY 10154-0053 (US).</p> <p>(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.</p> <p>(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published:
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(54) Title: SYSTEM AND METHOD FOR TOMOGRAPHIC IMAGING OF DYNAMIC PROPERTIES OF A SCATTERING MEDIUM



(57) Abstract: A system and method for the detection and three dimensional imaging of absorption and scattering properties of a medium such as human tissue is described. According to one embodiment of the invention, the system directs optical energy toward a turbid medium from at least one source and detects optical energy emerging from the turbid medium at a plurality of locations using at least one detector (106). The optical energy emerging from the medium (102) and entering the detector (106) originates from the source (101) is scattered by the medium (102). The system then generates an image representing interior structure of the turbid medium based on the detected optical energy emerging from the medium (102). Generating the image includes a time-series analysis.

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- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.